

IN THE CLAIMS :

Please cancel claims 1-10 and add new claims 11-20 in lieu thereof.

Claims 1-10 (canceled).

11. (new): Method for determining the position of a rotationally drivable tool, having the following steps :

- rotating a rotationally drivable tool (14),
- choosing a movement direction,
- moving the tool (14) in the chosen direction, away from the measuring beam (18), to a measuring position in which the tool (14) is separated from the measuring beam (18),
- detecting the measuring position, and
- determining the position of the tool (14) from the measuring position, wherein
- the tool (14) is positioned in the beam path of the measuring beam (18) before it is moved away from the measuring beam (18), and
- the measuring position is detected for a position of the tool (14) in which the measuring beam (18) is not interrupted during at least one revolution of the tool (14).

12. (new): Method according to claim 11, in which the tool (14) is positioned in the beam path of the measuring beam (18) in such a manner that the measuring beam (18) is interrupted.

13. (new): Method according to claim 11, in which the tool (14) is positioned in the beam path of the measuring beam (18) in such a manner that the measuring beam (18) is periodically interrupted by the rotating tool (14).

14. (new): Method according to claim 11, in which the tool (14) is rotated at a predetermined rotational speed.

15. (new): Method according to claim 11, in which the tool (14) is moved at a predetermined velocity.

16. (new): Method according to claim 11, in which the tool position is determined in dependence on the rotational speed and the movement velocity of the tool (14).

17. (new): Method according to claim 11, in which the moving of the tool (14) away from the measuring beam (18) is ended when the measuring position is reached.


18. (new): Method according to Claim 11, in which the geometry of the tool (14) is determined from the measuring position.

19. (new): Device for determining the geometry and position of a rotationally drivable tool, having :

- a control system, and
- an optical measuring device (10, 12), wherein
- the control system is designed and programmed to carry out the method according to claim 11.

20. (new): Device according to claim 19, wherein the optical measuring device (10, 12) has a transmitter (10) for emitting a measuring beam (18) and a receiver (12) for selectively receiving the measuring beam (18).

Respectfully submitted,

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